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IN THE ABSTRACT:

Please amend the abstract as indicated below:

~~Dynamic binary translators enable binaries of a source platform to execute on a target platform without recompilation. This is achieved by runtime (on the fly) translation of source machine instructions into equivalent target machine instructions. Typically dynamic binary translators are used for migrating from an older platform to a newer one, implementing complex instruction set architectures, speeding up simulators and in profiling tools. In all these applications, the speed of translation is critical to ensure that the overhead incurred by the translator does not outweigh the advantages of dynamic translation. A method of translating binary code instructions from a source format to a target format for processing by a target processor includes converting a source instruction into a source intermediate data structure having a plurality of members, mapping the members in the source intermediate data structure to corresponding members in a target intermediate data structure according to a template, and converting the target intermediate data structure into a target instruction.~~